Product Information Sheet

COMMISSION DELEGATED REGULATION (EU) 2019/2015 with regard to energy labelling of light sources

Supplier's name or trade mark: ELMARK

Supplier's address: ELMARK INDUSTRIES SC, bul.Dobrudja 2, 9300 Dobrich Dobrich, BG

Model identifier: 99LED973CW

Type of light source:

Lighting technology used:	LED	Non-directional or directional:	DLS
Light source cap-type (or other electric interface)	Integrated LED		
Mains or non-mains:	MLS	Connected light source (CLS):	No
Colour-tuneable light source:	No	Envelope:	-
High luminance light source:	No		
Anti-glare shield:	No	Dimmable:	No

Product parameters

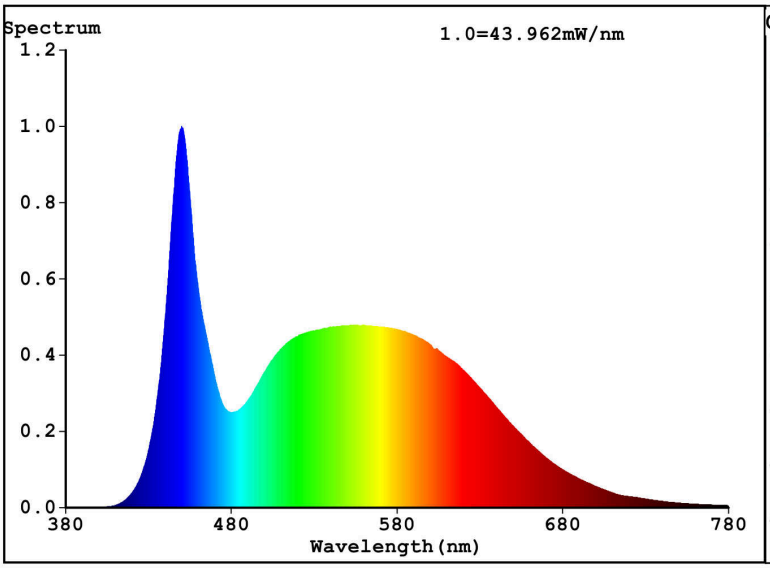
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	18	Energy efficiency class	F
Useful luminous flux (ϕuse), indicating if it refers to the flux in a sphere (360º), in a wide cone (120º) or in a narrow cone (90º)	1 390 in Wide cone (120°)	Correlated colour temperature, rounded to the nearest 100 K, or the range of correlated colour temperatures, rounded to the nearest 100 K, that can be set	6 000
On-mode power (P_{on}), expressed in W	18,8	Standby power (P_{sb}), expressed in W and rounded to the second decimal	0,00
Networked standby power (P_{net}) for CLS, expressed in W and rounded to the second decimal	-	Colour rendering index, rounded to the nearest integer, or the range of CRI-values that can be set	85
Outer dimensions without — Height	225	Spectral power distribution in the	See image in last page
Outer dimensions without — Width	225		
Outer dimensions without — Depth	18		

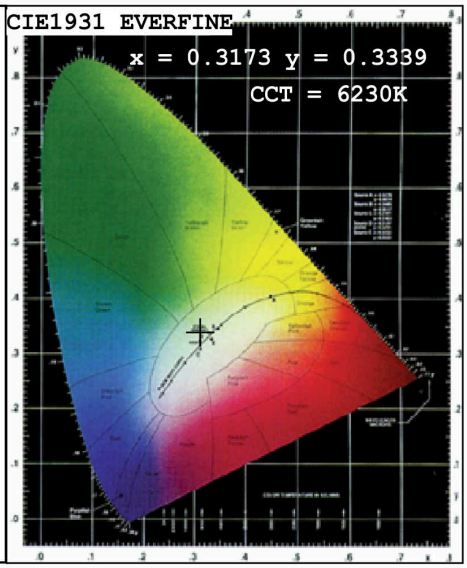
separate control gear, lighting control parts and non-lighting control parts, if any (millimetre)			range 250 nm to 800 nm, at full-load	
Claim of equivalent power[(a)]		-	If yes, equivalent power (W)	-
			Chromaticity coordinates (x and y)	0,317 0,333
Parameters for directional light sources:				
Peak luminous intensity (cd)		449	Beam angle in degrees, or the range of beam angles that can be set	120
Parameters for LED and OLED light sources:				
R9 colour rendering index value		20	Survival factor	0,50
the lumen maintenance factor		0,93		
Parameters for LED and OLED mains light sources:				
displacement factor (cos ϕ1)		0,90	Colour consistency in McAdam ellipses	5
Claims that an LED light source replaces a fluorescent light source without integrated ballast of a particular wattage.		-[(b)]	If yes then replacement claim (W)	-
Flicker metric (Pst LM)		0,0	Stroboscopic effect metric (SVM)	0,0

[(a)] '-' : not applicable;

[(b)] '-' : not applicable;

Spectrum Test Report





Color Parameters:

Chromaticity Coordinate:x=0.3173 y=0.3339/u'=0.1992 v'=0.4716

CCT=6230K(Duv=0.0034) Dominant WL:Ld =492.2nm Purity=5.4%

Ratio:R=14.0% G=80.5% B=5.5%¡¡Peak WL:Lp=449.9nm FWHM=22.7nm

Render Index:Ra=85.2

R1 =84	R2 =89	R3 =91	R4 =86	R5 =85	R6 =84	R7 =90	
R8 =74	R9 =20	R10=72	R11=85	R12=62	R13=85	R14=95	R15=80

Photo Parameters:

Flux = 1391 lm Eff. : 73.73 lm/W Fe = 4.530 W

Electrical parameters:

V = 230.01 V I = 0.08566 A P = 18.87 W PF = 0.9578

WHITE:ANSI_6500K

Status: Integral T = 24 ms Ip = 58293 (89%)

Model:LED PANELS ROUND/18W	Number:99LED973CW
Tester:Petya Marinova	Date:2019-04-12 13:46
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:W1118X117-2_5478